

REMARKS

A. GENERAL

Claims 1, 3-12, and 14-25 remain in the application. Claims 1, 5, 6, 12 and 16 have been amended. Claims 17-25 have been added. No new matter has been added.

Applicant has filed an RCE concurrent with the filing of this response to the Office Action dated May 15, 2003.

B. CLAIM REJECTIONS PURSUANT TO 35 U.S.C. §103(a)

1. Claims 1, 3-12, and 14-16 have been rejected under 35 U.S.C. §103(a) as being unpatentable over Nokes (EP 1043874) in view of Salembier et al (U.S. Patent 4,879,729).

The Office Action asserts that Nokes discloses a digital receiver arrangement comprising a tuner/demodulator circuit, analogue-to-digital conversion means, means for determining if an interference impulse is present in a received signal, and clipping the interference pulse only if an interference pulse is determined to be present in the received signal. The Office Action further asserts that Salembier discloses a circuit for canceling impulse noise wavelets (clicks) in a digital system using comparison means.

Claim 1 has been amended to recite the limitation, “wherein the impulse wavelet representation comprises a sequence of data perturbation values.” Salembier does not teach or reasonably suggest comparing a stored wavelet representation to a wavelet detected in an incoming signal. Claim 1 (as amended) is, therefore, patentable over the cited prior art.

Claims 3-11 as currently listed depend directly or indirectly from claim 1 (as amended) and recite all of the limitations of that base claim. It follows that claims 3-11 as currently listed are also patentable over the cited prior art.

Independent claim 12 has also been amended to recite the limitation, “wherein the impulse wavelet representation comprises a sequence of data perturbation values.” For the reasons set forth above, claim 12 (as amended) is also patentable over the cited prior art.

Claims 14-16 as currently listed depend from claim 12 (as amended) and recite all of the limitations of that base claim. It follows that claims 14-16 as currently listed are also patentable over the cited prior art.

New independent claims 17 and 24 recite the limitation, “forming an estimate of a shape of an impulse wavelet within the interference pulse, wherein the estimate of the shape of the

impulse wavelet comprises a sequence of data perturbation values.” For the reasons set forth above, claims 17 and 24 as currently listed are patentable over the cited prior art.

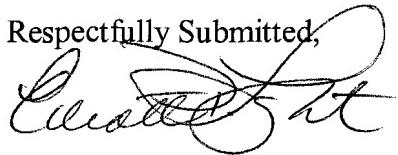
Claims 18-23 as currently listed depend from claim 17 and recite all of the limitations of that base claim. It follows that claims 18-23 as currently listed are also patentable over the cited prior art.

Claim 24 as currently listed depends from claim 23 and recites all of the limitations of that base claim. It follows that claim 24 as currently listed is also patentable over the cited prior art.

C. CONCLUSION

Applicant respectfully submits that the claims as currently listed are in condition for allowance. Applicant requests that this response be entered and that the current rejection of the claims now pending in this application be withdrawn in view of the above amendments, remarks and arguments.

Respectfully Submitted,



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